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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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10/724,299

11/26/2003

Raffi Codilian

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1174

35219

7590

02/22/2006

WESTERN DIGITAL TECHNOLOGIES, INC.

ATTN: SANDRA GENUA

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LAKE FOREST, CA 92630

EXAMINER

SEMENENKO, YURIY

ART UNIT

PAPER NUMBER

2841

DATE MAILED: 02/22/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

31

Office Action Summary	Application No.		Applicant(s)	
	10/724,299		CODILIAN, RAFFI	
	Examiner		Art Unit	
	Yuriy Semenenko		2841	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 11 January 2006.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-6 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-6 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 26 November 2003 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|---|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____ |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Election/Restrictions

1. Affirmation of election is acknowledged. Applicant elects of Group I, Claim 1-6 without traverse, as stated in Response to Office Action filed on 01/11/2006. Claims 1-6 are under consideration. Claims 7-15 have been cancelled. Claims 1-6 are now pending in this Application.

Specification

2. Title amendment, filed on 1/11/2006 are considered and is acknowledged.

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

- 3.1. Claims 1-4 are rejected under 35 U.S.C. 102(b) as being anticipated by Sakamoto et al. (PGPub # 2002/0050397) hereinafter Sakamoto.

As to claim 1: Sakamoto discloses in Fig. 1 a disk drive printed circuit board 11 (page 7,[0114]) for use with a disk drive electrical component 10, the disk drive electrical component 10, Fig. 1a (see Fig. 1, below) defining a rectangular perimeter, the perimeter including opposing first and second edges defining a first lateral distance, the perimeter further including opposing third and fourth edges defining a first lateral distance, the perimeter further including opposing third and fourth edges extending

between the first and second edges and defining a second lateral distance, the perimeter further including opposing corners defining a diagonal distance, the printed circuit board (Fig. 1, Sakamoto) comprising: a board body 11; a mounting surface disposed upon the board body; and component-dedicated alignment line indicators visibly disposed at the mounting surface for aligning the disk drive electrical component at the mounting surface [Component-dedicated alignment line indicators includes portions of the surface of the first and second insulating sheets P1 and P2, (see Fig. 2, below).] the component-dedicated alignment line indicators including: first and second inner line segments spaced apart a first inner spacing at least the first lateral distance and less than the diagonal distance; third and fourth inner line segments extending between and perpendicular to the first and second inner line segments, the third and fourth inner line segments spaced apart a second inner spacing at least the second lateral distance and less than the diagonal distance; and first and second outer line segments disposed parallel to the first and second inner line segments with the first and second inner line segments between the first and second outer line segments, the first and second outer line segments spaced apart a first outer spacing more than the first inner spacing and less than the diagonal distance.

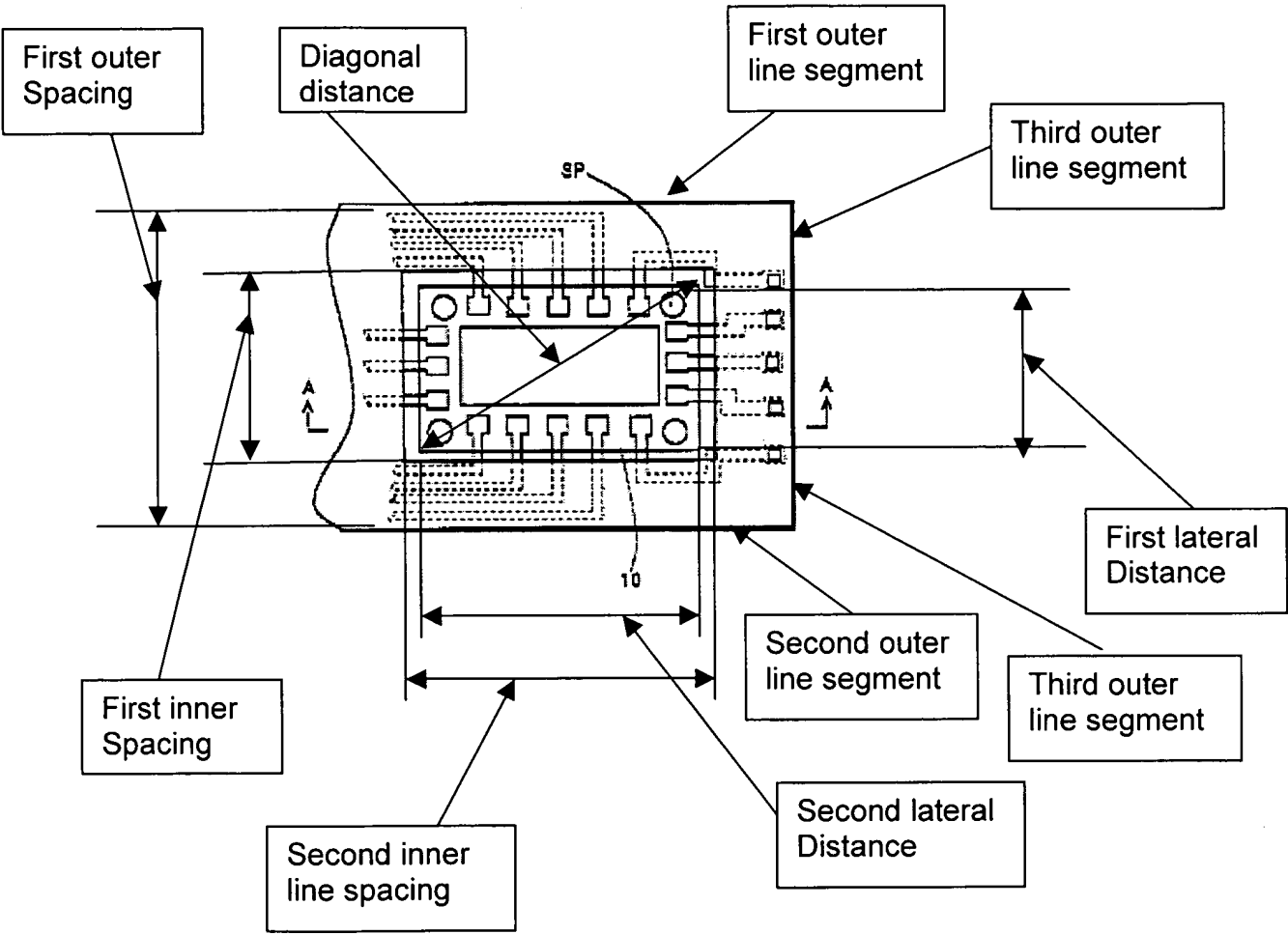


Fig. 1

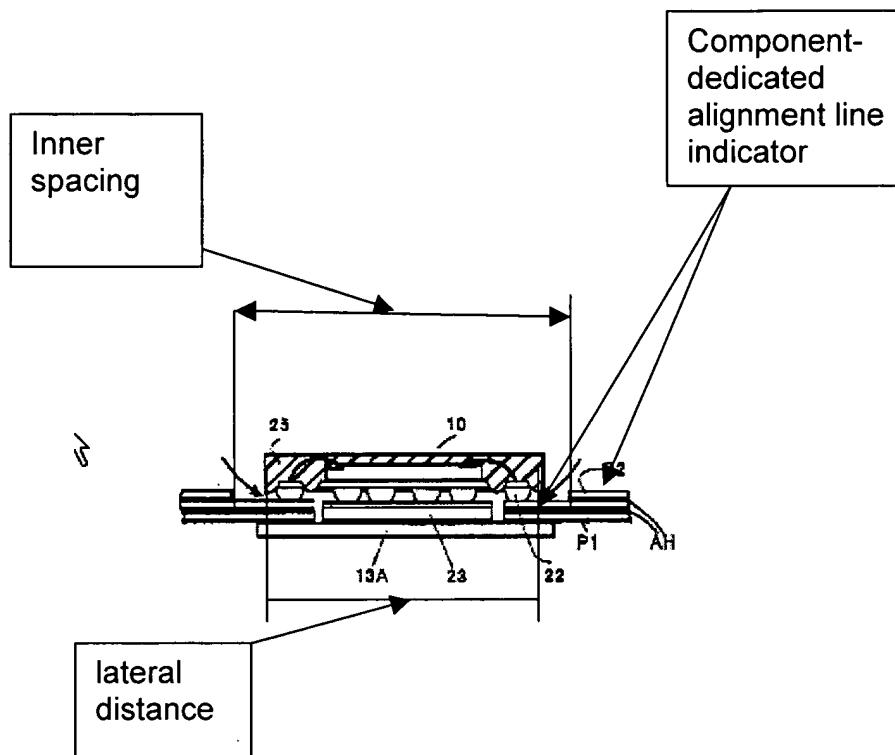


Fig.2

As to claim 2: Sakamoto discloses in Fig. 1 the printed circuit board of Claim 1 wherein the third and fourth inner line segments intersect the first-and second inner line segments (see Fig. 1, above).

As to claim 3: Sakamoto discloses the printed circuit board of Claim 1 wherein the component-dedicated alignment line indicators (Fig. 1, above) further includes a third outer line segment extending between and perpendicular to the first and second outer line segments, the third outer line segment is disposed with the third inner line segment between the third edge of the disk drive component and the third outer line segment.

As to claim 4: Sakamoto discloses the printed circuit board of Claim 3 wherein the third outer line segment intersects the first and second outer line segments.

Claim Rejections - 35 USC § 103

4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

4.1. Claims 5 and 6 rejected under 35 U.S.C. 103(a) as being unpatentable over Sakamoto in view of Bonin et al. (Patent #6798609) hereinafter Bonin.

As to claims 5 and 6 Sakamoto discloses the printed circuit board having all of the claimed features as discussed above with respect claim 1, and alignment line indicators further includes third outer line segments extending between and perpendicular to the first and second outer line segments, the third and fourth inner line segments spaced apart a second outer spacing at least the second lateral distance and less than the diagonal distance, and wherein the third outer line segments intersect the first and second outer line segments (see Fig. 1, above).

Although, Sakamoto doesn't explicitly teach the component-dedicated alignment line indicators further includes fourth outer line segments extending between and perpendicular to the first and second outer line segments, and wherein the fourth outer line segments intersect the first and second outer line segments. It can use any lines close to a disk drive electrical component such as, for example in Bonin's patent, Fig.3 - beams 33 and 35 are close to the disk drive electrical component 24. This beams are capable of performing the intended use (alignment line indicators) and then it meets the claim (claim 15). See In re Casey, 152 USPQ 235 (CCPA 1967) AND In re Otto, 136

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USPQ 458, 459 (CCPA 1963). And further, it has been held In re Dailey, 357 F.2d 669, 149 USPQ 47 (CCPA 1966) that change in shape and change in size of the configuration of the claimed device was a matter of choice which a person of ordinary skill in the art would have found obvious absent persuasive evidence that the particular configuration of the claimed container was significant. Therefore, at time the invention was made, it was old and well-known to use fourth outer line segments extending between and perpendicular to the first and second outer line segments, and wherein the fourth outer line segments intersect the first and second outer line segments.

Therefore it would have been obvious to one of ordinary skill in the art, at time the invention was made for Ito to include in his invention fourth outer line segments extending between and perpendicular to the first and second outer line segments, and wherein the fourth outer line segments intersect the first and second outer line segments, motivated by its known suitability for its intended use. See MPEP §2144.07.

Relevant Art

5. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Spychalla – PGPub 2005/0117288;

Shah et al. - PGPub 2005/0013110;

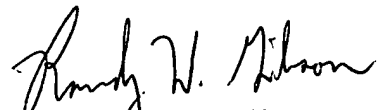
6.1. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Yuriy Semenenko whose telephone number is (571) 272-6106. The examiner can normally be reached on 8:30am - 5:00pm.

6.2. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kamand Cuneo can be reached on (571)- 272-1957. The fax phone number for the organization where this application or proceeding is assigned is 571- 273-8300.

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6.3. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

YS


RANDY W. GIBSON
PRIMARY EXAMINER